



## Ohio Clean Energy Manufacturing

### Overview

With 137,143 green jobs in the state, Ohio has the fifth-highest number of green jobs in the nation, with more than 29,000 of them in manufacturing.<sup>i</sup> Ohio's clean economy is also adding jobs at a much faster rate than the state's overall economy: the clean economy increased by 8.5 percent from 2007 to 2010<sup>ii</sup>, while Ohio's economy as a whole lost nearly 350,000 jobs over the same period, a decrease of roughly 6.1 percent.<sup>iii</sup>

Ohio's alternative energy portfolio standard, established in 2008, is helping drive renewable energy job growth. The standard mandates that 12.5 percent of Ohio's electricity must come from renewable sources by 2025.<sup>iv</sup> As of October 2013, Ohio has 35 utility-scale solar facilities in operation, and 68 more under development.<sup>v</sup>

### Direct Green Jobs by Region<sup>vi</sup>

Central Ohio region—consists of nine counties and includes the entire Columbus Metropolitan Statistical Area plus one adjoining county.

- 7,958 green jobs in the region
- 826 green jobs in manufacturing

Northwest Ohio region—comprises nine counties and includes the four counties in the Toledo, the Sandusky MSA (one county), and four adjoining counties.

- 8,931 direct green jobs in the region
- 4,369 green jobs in manufacturing

West Central Ohio region—consists of eight counties, one of which is the Lima MSA.

- 3,640 green jobs in the region
- 205 green jobs in manufacturing

Southwest Central Ohio region—contains the four counties of the Dayton MSA, the Springfield MSA (one county), and four adjoining counties.

- 3,628 green jobs in the region
- 844 green jobs in manufacturing

Southwest Ohio region—consists of four counties that are part of the Cincinnati-Middletown MSA. One of the counties is part of Appalachia.

- 7,291 green jobs in the region
- 2,060 green jobs in manufacturing

North Central Ohio region—consists of nine counties. It includes the Mansfield MSA (one county), one county from the Columbus MSA, and seven adjoining counties.

- 2,706 jobs in the region
- 1,836 green jobs in manufacturing

Southern Ohio region—comprises ten counties in southern-most area of Ohio. One county is part of the Cincinnati-Middletown MSA, and another is part of the Huntington-Ashland (WV) MSA. All of the counties are part of Appalachia.

- 397 green jobs in the region
- 230 green jobs in manufacturing

Northern Ohio region—consists of four counties that are part of the Cleveland-Elyria-Mentor MSA.

- 9,121 green jobs in the region
- 1,364 green jobs in manufacturing

Northeast Central Ohio region—consists of five counties. One county is part of the Cleveland-Elyria-Mentor MSA, two counties make up the Akron MSA, a fourth county is part of the Canton-Massillon MSA, and the fifth county is not part of any MSA.

- 5,611 green jobs in the region
- 1,524 green manufacturing jobs

East Central Ohio—comprises 10 counties. One county is part of the Canton-Massillon MSA, another county is part of the Weirton (WV)-Steubenville (OH) MSA, and a third county is part of the Wheeling (WV) MSA. The other counties are not part of any MSA; all of the counties in the region are part of Appalachia.

- 4,110 green jobs in the region
- 2,267 green manufacturing jobs

Southeast Ohio region—consists of eight counties. One county is part of the Parkersburg (WV)-Marietta-Vienna MSA, and all of the counties are part of Appalachia.

- 791 green jobs in the region
- 224 green manufacturing jobs

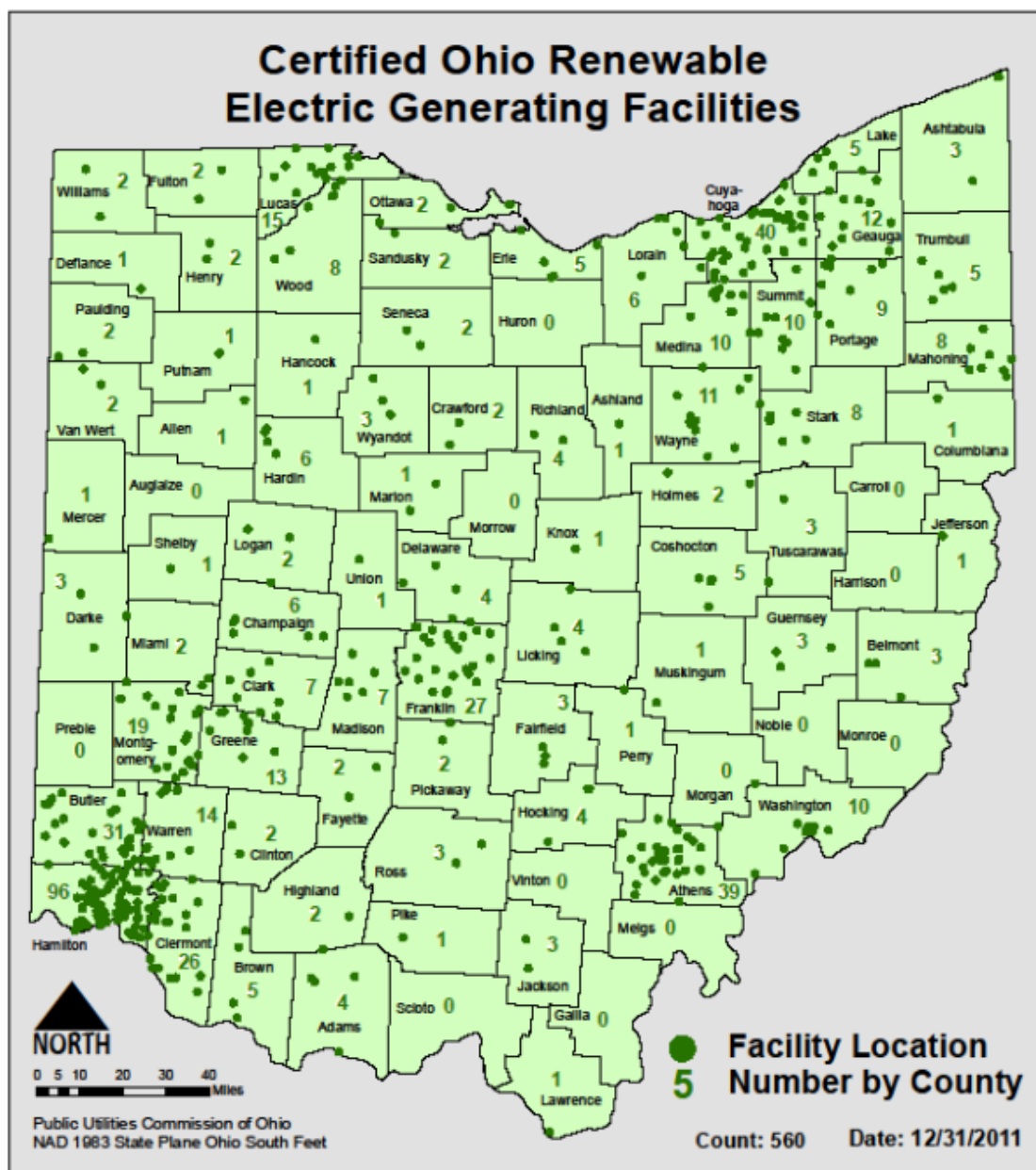
Northeast Ohio region—consists of only three counties. Two counties are part of the Youngstown-Warren-Boardman MSA, and all three counties are part of Appalachia.

- 941 green jobs in the region
- 369 green manufacturing jobs

### **Ohio's Largest Metropolitan Areas<sup>vii</sup>**

- Akron—5,445 green jobs
- Cincinnati-Middletown—18,525 green jobs
- Cleveland-Elyria-Mentor—24,664
- Columbus—15,498
- Dayton—6,232
- Toledo—11,831
- Youngstown-Warren-Boardman—2,977

### **Renewable Electric Generating Facilities by County**



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Ohio's energy standard, which passed both the House and Senate by a wide margin and was signed into law by Gov. Ted Strickland in 2008, has generated almost \$1 billion in net savings for Ohio ratepayers— which is three dollars saved for every dollar invested.<sup>ix</sup> Experts also estimate that for every dollar invested in conservation efforts, consumers save \$3 on their energy bills.<sup>x</sup> The green economy is not only creating jobs, but also allowing Ohioans to save more money on their utilities.

## Public Opinion<sup>xi</sup>

- 83 percent of respondents think the manufacturing of advanced energy products like batteries for power storage, high-efficiency motors and equipment, and wind turbine components are very important or somewhat important to Ohio's economy.
- 79.5 percent of Ohioans believe it is very important or somewhat important for the state's political leaders to do more to further advanced energy in the state.
- A majority (54 percent) believes it is very important to Ohio's future that the state be a leader in developing, manufacturing, and deploying advanced energy. An additional 31 percent cite it as somewhat important.
- Over half of Ohioans (51 percent) believe efforts to make greater use of energy-saving technologies like high-efficiency lighting, appliances, and insulation create American jobs.
- 56 percent of Ohioans agree that efforts to make greater use of energy-saving technologies that help our country do more with less energy have been positive because they save money over the long run and make our economy more productive and competitive.

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<sup>i</sup> <http://www.bls.gov/news.release/pdf/ggqcew.pdf>

<sup>ii</sup> <http://www.nrdc.org/energy/renewables/ohio.asp>

<sup>iii</sup> <http://data.bls.gov/timeseries/LASST39000003>

<sup>iv</sup> <http://www.puco.ohio.gov/puco/index.cfm/industry-information/industry-topics/ohioe28099s-renewable-and-advanced-energy-portfolio-standard/>

<sup>v</sup> [http://environmentohio.org/sites/environment/files/reports/OH\\_clean\\_energy\\_web.pdf](http://environmentohio.org/sites/environment/files/reports/OH_clean_energy_web.pdf)

<sup>vi</sup> [http://www.doleta.gov/performance/results/AnnualReports/2011\\_economic\\_reports/oh\\_greenjobs.pdf](http://www.doleta.gov/performance/results/AnnualReports/2011_economic_reports/oh_greenjobs.pdf)

<sup>vii</sup> [http://www.brookings.edu/~media/Series/resources/0713\\_clean\\_economy\\_ex\\_appendix.pdf](http://www.brookings.edu/~media/Series/resources/0713_clean_economy_ex_appendix.pdf)

<sup>viii</sup> <http://www.puco.ohio.gov/puco/assets/File/12-2668-Report-071013.pdf>

<sup>ix</sup> [http://www.ucsusa.org/news/press\\_release/ohio-clean-energy-standards-0370.html](http://www.ucsusa.org/news/press_release/ohio-clean-energy-standards-0370.html)

<sup>x</sup> <http://www.theoec.org/campaign/energy-efficiency>

<sup>xi</sup> <http://aeeohioinstitute.org/files/dmfile/AEEOhio pollingfactsheet4.pdf>